

# ABSTRACT OF THE DISCLOSURE

Disclosed herein is a biodegradable and bioactive glass-ceramic fabricated by mixing a slowly biodegradable glass-ceramic and a highly biodegradable glass-ceramic in a predetermined mixing ratio wherein the bioactivity is maintained to be constant, and the biodegradation rate is controlled by the mixing ratio. The biodegradable and bioactive glass-ceramic is fabricated from a composition consisting of calcium oxide (CaO), silica (SiO<sub>2</sub>), boron oxide (B<sub>2</sub>O<sub>3</sub>), magnesium oxide (MgO), calcium fluoride (CaF<sub>2</sub>) and phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>).